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L13: Entry 15 of 20

File: USPT

Oct 26, 1999

DOCUMENT-IDENTIFIER: US 5972324 A

TITLE: Monohydric alcohol derived urethanes and their use in cosmetic formulations

Brief Summary Paragraph Right (7):

As a result of molecular weight and structure, diisopropyl adipate has been found to be an extremely dry ester with excellent solvency characteristics. Because of its physical properties, diisopropyl adipate finds use in products ranging from floating bath oils, after shaves, creams, lotions, deodorants, pre-electric shave lotions, to antiperspirants. Diisopropyl adipate has been widely used for numerous years in these applications because of the availability of raw materials and relatively low production cost. Diisostearyl adipate, on the other hand, is a relatively heavy, water white diester with little or no odor that imparts a luster and sheen to the skin and, as a result of its molecular weight and viscosity, has a tendency to linger on the skin. Dicapryl adipate is a diester derived from natural sources (through the cracking of castor oil to yield caprylene, then conversion to the corresponding alcohol) which has been found to exhibit insect repellency and has met with huge success in repellents for use in human and animal products. Diesters derived from dimer acids, such as diisopropyl dimerate and diisostearyl dimerate, in addition to being excellent, long lasting emollients because of their relatively high molecular weight, were shown to add anti-irritation characteristics to given skin formulations.

Brief Summary Paragraph Right (8):

Typical end-use applications of diesters of dicarboxylic acids in the personal care, cosmetic as well as toiletry industries include: skin care products, eye makeups, body shampoo, stick deodorants, protective skin formulations, lipsticks, lip glosses, pre-electric and after shave lotions, after-bath splashes, shampoos and rinses, presun and sun products, antiperspirants and sunscreens.

Detailed Description Paragraph Center (21):Bath Gel #766Detailed Description Paragraph Center (23):Dispersible Bath OilDetailed Description Paragraph Center (27):Floating Bath OilDetailed Description Paragraph Table (8):

		INGREDIENTS %, WEIGHT INCI NAME	
		Monoderm I-16	10.00 Bis-(Isocetyl)-3-IPDI
Isocyanate Dermol IPM	10.00	Isopropyl Myristate Dermol	1012 3.00 Laureth-2-Octanoate
PEG 200 Dilaurate	4.00	PEG-4 Laurate	Mineral Oil, Light 69.00 Fragrance 4.00